

# Product datasheet

Specifications



## TeSys D contactor S207 - 4P (4NO) AC-1 40A <=440V - coil 24V DC

LC1DT406BDS207

⚠ Discontinued on: 9 Feb 2023

EAN Code: 3389118314511

⚠ Discontinued

### Main

|                                |                                                                                                                  |
|--------------------------------|------------------------------------------------------------------------------------------------------------------|
| Range                          | TeSys<br>TeSys Deca                                                                                              |
| Range of product               | TeSys Deca                                                                                                       |
| Product or component type      | Contactors                                                                                                       |
| Device short name              | LC1D                                                                                                             |
| Contactors application         | Resistive load                                                                                                   |
| Utilisation category           | AC-1<br>AC-3<br>AC-3e<br>AC-4                                                                                    |
| Poles description              | 4P                                                                                                               |
| [Ue] rated operational voltage | Power circuit: <= 690 V AC 25...400 Hz                                                                           |
| [Ie] rated operational current | 25 A (at <60 °C) at <= 440 V AC AC-3 for power circuit<br>40 A (at <60 °C) at <= 440 V AC AC-1 for power circuit |

### Complementary

|                                             |                                                                                                                                                                                        |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pole contact composition                    | 4 NO                                                                                                                                                                                   |
| Protective cover                            | With                                                                                                                                                                                   |
| Auxiliary contacts type                     | type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1<br>type mirror contact 1 NC conforming to IEC 60947-4-1                                                               |
| Auxiliary contact composition               | 1 NO + 1 NC                                                                                                                                                                            |
| [Ui] rated insulation voltage               | Power circuit: 690 V conforming to IEC 60947-4-1<br>Signalling circuit: 690 V conforming to IEC 60947-1                                                                                |
| [Uimp] rated impulse withstand voltage      | 6 kV conforming to IEC 60947                                                                                                                                                           |
| Overvoltage category                        | III                                                                                                                                                                                    |
| [Ith] conventional free air thermal current | 10 A (at 60 °C) for signalling circuit<br>40 A (at 60 °C) for power circuit                                                                                                            |
| Irms rated making capacity                  | 140 A AC for signalling circuit conforming to IEC 60947-5-1<br>250 A DC for signalling circuit conforming to IEC 60947-5-1<br>450 A at 440 V for power circuit conforming to IEC 60947 |
| Rated breaking capacity                     | 450 A at 440 V for power circuit conforming to IEC 60947                                                                                                                               |
| Associated fuse rating                      | 10 A gG for signalling circuit conforming to IEC 60947-5-1<br>63 A gG at <= 690 V coordination type 1 for power circuit<br>40 A gG at <= 690 V coordination type 2 for power circuit   |
| Time constant                               | 28 ms                                                                                                                                                                                  |
| Control circuit type                        | DC standard                                                                                                                                                                            |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                                |                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Coil technology                | With integral suppression device                                                                                                                                                                                                                                                                                                                               |
| Control circuit voltage limits | 0.1...0.25 Uc (-40...70 °C):drop-out DC<br>0.7...1.25 Uc (-40...70 °C):operational DC with spacing >8 mm<br>0.7...1.25 Uc (-40...50 °C):operational DC<br>0.7...1.1 Uc (50...70 °C):operational DC                                                                                                                                                             |
| Average impedance              | 2 mOhm - lth 40 A 50 Hz for power circuit                                                                                                                                                                                                                                                                                                                      |
| Power dissipation per pole     | 3.2 W AC-1<br>1.25 W AC-3                                                                                                                                                                                                                                                                                                                                      |
| Minimum switching current      | 5 mA for signalling circuit                                                                                                                                                                                                                                                                                                                                    |
| Minimum switching voltage      | 17 V for signalling circuit                                                                                                                                                                                                                                                                                                                                    |
| Non-overlap time               | 1.5 ms on de-energisation between NC and NO contact<br>1.5 ms on energisation between NC and NO contact                                                                                                                                                                                                                                                        |
| Operating time                 | 63 ±15 % ms closing<br>20 ±20 % ms opening                                                                                                                                                                                                                                                                                                                     |
| Maximum operating rate         | 3600 cyc/h 60 °C                                                                                                                                                                                                                                                                                                                                               |
| Inrush power in W              | 5.4 W (at 20 °C)                                                                                                                                                                                                                                                                                                                                               |
| Hold-in power consumption in W | 5.4 W at 20 °C                                                                                                                                                                                                                                                                                                                                                 |
| Insulation resistance          | > 10 MOhm for signalling circuit                                                                                                                                                                                                                                                                                                                               |
| Connections - terminals        | Control circuit: lugs-ring terminals - external diameter: 8 mm<br>Power circuit: lugs-ring terminals - external diameter: 9 mm                                                                                                                                                                                                                                 |
| Tightening torque              | Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5<br>Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5<br>Power circuit: 1.8 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5<br>Power circuit: 1.8 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 |
| Mounting support               | Rail<br>Plate                                                                                                                                                                                                                                                                                                                                                  |
| Electrical durability          | 1.4 Mcycles 40 A AC-1 at Ue <= 440 V                                                                                                                                                                                                                                                                                                                           |
| Mechanical durability          | 30 Mcycles                                                                                                                                                                                                                                                                                                                                                     |
| Safety reliability level       | B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1                                                                                                                                                                                           |
| Operating altitude             | 0...3000 m                                                                                                                                                                                                                                                                                                                                                     |
| Compatibility code             | LC1D                                                                                                                                                                                                                                                                                                                                                           |
| Standards                      | EN/IEC 60947-4-1<br>EN/IEC 60947-5-1<br>EN 45545: R22 HL3<br>EN 45545: R26 HL3<br>DIN 5510-2                                                                                                                                                                                                                                                                   |
| Product certifications         | IEC<br>CCC<br>EAC<br>UA<br>TR<br>UKCA<br>CB                                                                                                                                                                                                                                                                                                                    |

## Environment

|                                     |                                                                        |
|-------------------------------------|------------------------------------------------------------------------|
| Climatic withstand                  | conforming to IACS E10<br>conforming to IEC 60947-1 Annex Q category D |
| Ambient air temperature for storage | -60...80 °C                                                            |
| Fire resistance                     | 850 °C conforming to IEC 60695-2-1                                     |
| Height                              | 91 mm                                                                  |

|                       |                                                                                                                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Width                 | 45 mm                                                                                                                                                                                 |
| Depth                 | 107 mm                                                                                                                                                                                |
| Net weight            | 0.425 kg                                                                                                                                                                              |
| Mechanical robustness | Vibrations contactor open (2 Gn, 5...300 Hz)<br>Vibrations contactor closed (4 Gn, 5...300 Hz)<br>Shocks contactor closed (15 Gn for 11 ms)<br>Shocks contactor open (8 Gn for 11 ms) |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 5.3 cm  |
| Package 1 Width              | 11.8 cm |
| Package 1 Length             | 9.9 cm  |
| Package 1 Weight             | 627.0 g |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

|                                                        |                                               |
|--------------------------------------------------------|-----------------------------------------------|
| Total lifecycle Carbon footprint                       | 55 kg CO2 eq.                                 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 2 kg CO2 eq.                                  |
| Carbon footprint of the distribution phase [A4]        | 0.8 kg CO2 eq.                                |
| Carbon footprint of the installation phase [A5]        | 0 kg CO2 eq.                                  |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 50 kg CO2 eq.                                 |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 1 kg CO2 eq.                                  |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |

## Use Better



### Materials and Substances

|                                        |                                                                                        |
|----------------------------------------|----------------------------------------------------------------------------------------|
| Packaging made with recycled cardboard | Yes                                                                                    |
| Packaging without single use plastic   | Yes                                                                                    |
| SCIP Number                            | 4be95b29-a1a6-4998-9661-e1893f5e4a16                                                   |
| EU RoHS Directive                      | <a href="#">Compliant By Exemption</a>                                                 |
| REACH Regulation                       | <a href="#">Reference contains Substances of Very High Concern above the threshold</a> |
| PVC free                               | Yes                                                                                    |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again



### Repack and remanufacture

|                                 |                                                                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recyclability potential, in %   | 73                                                                                                                                                                                                              |
| End of life manual availability | <a href="#">End of Life Information</a>                                                                                                                                                                         |
| Take-back                       | No                                                                                                                                                                                                              |
| WEEE Label                      |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Offer Marketing Illustration

Product benefits / Features

### TeSys Deca Contactors



**Reliable**

Multi-standard solutions, high reliability, long mechanical and electrical durability for different sizes, and the most complete accessories.



**Energy efficiency**

These electronic-coil contactors require up to 80 % less energy than electro-mechanical contactors.



**Universal**

Multi standards certified (IEC, UL, CSA, CCC, EAC, Marine), Green Premium compliant (RoHS/REACH).



18 Feb 2026

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Offer Marketing Illustration

Product benefits / Features

### TeSys Deca Contactors

#### Technical Benefits



The image shows a TeSys Deca Contactor, a black industrial device with a green label that reads 'TeSys Schneider Electric'. It has multiple terminals on top and bottom, labeled with numbers and letters like '13 NO', '22 NC', 'A1', '14 NO', '22 NC', 'A2', '2m', '4m', '6m'. A QR code is visible on the bottom left of the device.

- Deca green delivers a consistent low consumption range of contactors from 9 A to 80 A.
- Covers control voltage from 24 to 250 V, with same coils for AC and DC.
- Designed to meet the requirements of industrial and HVAC applications
- With IEC60335-1 compliance, improved fire resistance, and dust-proof auxiliaries
- Suitable for safety applications thanks to mechanically linked contacts and mirror contacts
- Outstanding breaking/making capacity up to 20 In with PLC direct connection

Offer Marketing Illustration

Product benefits / Features

